

Patent
Attorney's Docket No. 015290-795

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Reissue Patent Application of)
Raymond DEGNER et al.)
Application No.: (unassigned))
Filed: December 12, 2003)
For: COMPOSITE ELECTRODE FOR)
PLASMA PROCESS)

FIRST INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, applicants hereby submit the following information in conformance with the provisions of 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents listed below is enclosed. However, copies of the listed U.S. patents and U.S. patent application publications are not enclosed since it is no longer required according to the July 11, 2003, waiver of the requirement for copies of cited U.S. patents and U.S. patent application publications in national patent applications filed after June 30, 2003, and international applications entering the national stage under 35 U.S.C. § 371 after June 30, 2003.

The documents are being submitted within three (3) months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later. Since documents are being filed within the time period set forth in 37 C.F.R. § 1.97(b) no fee or statement is required.

This Information Disclosure Statement contains information which is not in the English language but was cited in a search report or other action by a foreign patent office in a counterpart foreign application. In accordance with M.P.E.P. § 609A(3) an English

language version of the search report or action which indicates the degree of relevance found by the foreign office is being submitted herewith.

US Patent No. 4,158,589, Keller et al, issued June 19, 1979
US Patent No. 4,209,357, Gorin et al., issued June 24, 1980
US Patent No. 4,297,162, Mundt et al., issued October 27, 1981
US Patent No. 4,340,462, Koch, issued July 22, 1982
US Patent No. 4,367,114, Steinberg et al., issued January 4, 1983
US Patent No. 4,385,979, Pierce et al., issued May 31, 1983
US Patent No. 4,407,708, Landau et al., issued October 4, 1983
US Patent No. 4,443,951, Elsasser et al., issued April 24, 1984
US Patent No. 4,483,654, Koch et al., issued November 20, 1984
US Patent No. 4,534,816, Chen et al., issued August 13, 1985
US Patent No. 4,590,042, Drage, issued May 20, 1986
US Patent No. 4,595,484, Giammarco et al., issued July 17, 1986
US Patent No. 4,600,563, Diederich, issued July 15, 1986
US Patent No. 4,603,466, Morley, issued August 5, 1986
US Patent No. 4,612,077, Tracy et al., issued September 16, 1986
US Patent No. 4,612,432, Sharp-Geisler, issued September 16, 1986
US Patent No. 4,615,755, Tracy et al., issued October 7, 1986
US Patent No. 4,728,252, Lada et al., issued March 1, 1988
US Patent No. 4,780,169, Stark et al., issued October 25, 1988
US Patent No. 4,792,378, Rose et al., issued December 20, 1988
US Patent No. 4,793,975, Drage, issued December 27, 1988
US Patent No. 4,820,371, Rose, issued April 11, 1989
US Patent No. 4,833,790, Spencer et al., issued May 30, 1989
US Patent No. 4,871,421, Ogle et al., issued October 3, 1989
US Patent No. 4,960,488, Law et al., issued October 2, 1990
US Patent No. 5,006,220, Hijikata et al., issued April 9, 1991

US Patent No. 5,014,004, Hirao et al., issued May 14, 1991

European Patent No. 0346055 A2, published December 13, 1989

European Patent No. 0188208 A2, published July 23, 1985

WO Patent No. 8902695 A, published March 23, 1989

Japanese Patent No. 62-109317, published May 20, 1987

English translation provided

Japanese Patent No. 61-243170, published October 29, 1986

English translation provided

Japanese Patent No. 63-317667, published December 26, 1988

English translation provided

Japanese Patent No. H01-204424, published August 17, 1989

English translation provided

Japanese Patent No. 63-019731, published January 27, 1988

English language abstract provided

Japanese Patent No. 06-191033, published July 12, 1994

English language abstract provided

Japanese Patent No. 61-291967, published December 29, 1986

English language abstract provided

Translated portions:

Page (2), lower left column from line 3 to second line from the bottom.

[Embodiment]

An embodiment of the present invention is explained below using attached drawings. In Figs. 1(a) and (b), the target body 2 made of Te is adhered by a bonding layer 3 made of In alloy material on to the backing plate 1 made of copper or stainless steel. The projections 4 are provided to the bonding surface of the plate 1 and the low melting metal 5 such as Sn embedded in the body 2 is bonded directly to the plate 1.

Due to this structure, the heat of the low melting metal is constantly transferred through the backing plate to control the accumulation of heat to

the minimum. Therefore, because low melting metals are directly cooled, metals to constitute the film are not restricted by their heat conductivity.

Page (3), upper right column from line 2 to 7.

The materials for the target body other than Te can be single metals such as Al, Ag, Au, Cu, Ge, Ni, Si, Ti, Zn, or alloys or compounds such as Al₂O₃, Bi₂O₃, In₂O₃, ITO, PbO, SiC, Si₃N₄, SiO₂, SnO₂, TiC, TiO₂, ZnS and ZnSe.

Japanese Patent No. H02-194627, published August 1, 1990

English language abstract provided

Translated portions:

Page (2), from lines 10-13 in lower left column.

A disk shaped graphite electrode is disposed facing the table (2) at a certain interval from this table (2). Above the electrode (5), lid member (6) of the same diameter as the electrode (5) is connected, and the electrode (5) and the lid member (6) define a space (7) between them. The space has a gas inlet (8) to introduce treatment gas.

Page (3), from line 16 in upper left column to line 5 in upper right column.

A ceramic insulation ring (17) is fitted around the electrode (5) thus constructed and the lid member (6) similarly to the insulation ring, and the insulation ring (17) is fitted in the upper wall of the sealed chamber (1).

Because the electrode (5) is connected to the sealed chamber (1), the electrode (5) is electrically insulated from the sealed chamber (1).

Japanese Patent No. 61-104625, published May 22, 1986

English language abstract provided

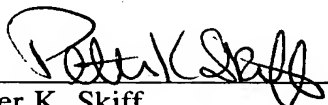
Official Letter from Taiwanese National Bureau of Standards

English language translation of Official Letter which indicates the degree of relevance of art cited for Taiwanese Patent Application No. 80101614

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner-initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

By: 
Peter K. Skiff
Registration No. 31,917

P.O. Box 1404
Alexandria, Virginia 22313-1404
(703) 836-6620
Date: December 12, 2003

| | | |
|--|------------------------------------|---------------------------------|
| Substitute for forms 1449A/PTO & 1449B/PTO | ATTORNEY'S DKT NO. 015290-795 | APPLICATION No. (unassigned) |
| | APPLICANT Raymond DEGNER et al. | |
| | FILING DATE December 12, 2003 | GROUP |
| | | |

FIRST INFORMATION DISCLOSURE STATEMENT BY APPLICANT

U.S. PATENT DOCUMENTS

| Examiner Initials | Document Number | Kind Code (if known) | Name of Patentee or Applicant of Cited Document | Issue/Publication Date (MM-DD-YYYY) |
|-------------------|-----------------|----------------------|---|-------------------------------------|
| | 4,158,589 | | Keller et al. | 06-19-1979 |
| | 4,209,357 | | Gorin et al. | 06-24-1980 |
| | 4,297,162 | | Mundt et al. | 10-27-1981 |
| | 4,340,462 | | Koch | 07-22-1982 |
| | 4,367,114 | | Steinberg et al. | 01-04-1983 |
| | 4,385,979 | | Pierce et al. | 05-31-1983 |
| | 4,407,708 | | Landau et al. | 10-04-1983 |
| | 4,443,951 | | Elsasser et al. | 04-24-1984 |
| | 4,483,654 | | Koch et al. | 11-20-1984 |
| | 4,534,816 | | Chen et al. | 08-13-1985 |
| | 4,590,042 | | Drage | 05-20-1986 |
| | 4,595,484 | | Giammarco et al. | 07-17-1986 |

FOREIGN PATENT DOCUMENTS

| Examiner Initials | Document Number | Kind Code (if known) | Country | Date of Publication (MM-DD-YYYY) | Translation Yes | No |
|-------------------|-----------------|----------------------|------------|----------------------------------|-----------------|----|
| | 63-019731 | | Japan (JP) | 01-27-1988 | abst | |
| | 62-109317 | | Japan (JP) | 05-20-1987 | x | |
| | 06-191033 | | Japan (JP) | 07-12-1994 | abst | |
| | 61-243170 | | Japan (JP) | 10-29-1986 | x | |
| | 63-317667 | | Japan (JP) | 12-26-1988 | x | |
| | 61-291967 | | Japan (JP) | 12-29-1986 | abst | |
| | H01-204424 | | Japan (JP) | 08-17-1989 | x | |

NON PATENT LITERATURE DOCUMENTS

| Examiner Initials | Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |
|-------------------|---|
| | Official Letter from Taiwanese National Bureau of Standards for TW Patent Application No. 80101614 |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

| | |
|--------------------|-----------------|
| Examiner Signature | Date Considered |
|--------------------|-----------------|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

| | | |
|--|------------------------------------|---------------------------------|
| Substitute for forms 1449A/PTO & 1449B/PTO FIRST INFORMATION DISCLOSURE STATEMENT BY APPLICANT | ATTORNEY'S DKT NO. 015290-795 | APPLICATION NO. (unassigned) |
| | APPLICANT Raymond DEGNER et al. | |
| | FILING DATE December 12, 2003 | GROUP |
| | | |

| U.S. PATENT DOCUMENTS | | | | |
|-----------------------|-----------------|----------------------|---|-------------------------------------|
| Examiner Initials | Document Number | Kind Code (if known) | Name of Patentee or Applicant of Cited Document | Issue/Publication Date (MM-DD-YYYY) |
| | 4,600,563 | | Diederich | 07-15-1986 |
| | 4,603,466 | | Morley | 08-05-1986 |
| | 4,612,077 | | Tracey et al. | 09-16-1986 |
| | 4,612,432 | | Sharp-Geisler | 09-16-1986 |
| | 4,615,755 | | Tracy et al. | 10-07-1986 |
| | 4,728,252 | | Lada et al. | 03-01-1988 |
| | 4,780,169 | | Stark et al. | 10-25-1988 |
| | 4,792,378 | | Rose et al. | 12-20-1988 |
| | 4,793,975 | | Drage | 12-27-1988 |
| | 4,820,371 | | Rose | 04-11-1989 |
| | 4,833,790 | | Spencer et al. | 05-30-1989 |
| | 4,871,421 | | Ogle et al. | 10-03-1989 |
| | 4,960,488 | | Law et al. | 10-02-1990 |
| | 5,006,220 | | Hijikata et al. | 04-09-1991 |
| | 5,014,004 | | Hirao et al. | 05-14-1991 |
| | | | | |
| | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | |
|--------------------------|-----------------|----------------------|-------------|----------------------------------|--------------------|
| Examiner Initials | Document Number | Kind Code (if known) | Country | Date of Publication (MM-DD-YYYY) | Translation Yes No |
| | H02-194627 | | Japan (JP) | 08-01-1990 | abst |
| | 61-104625 | | Japan (JP) | 05-22-1986 | abst |
| | 0346055 | A2 | Europe (EP) | 12-13-1989 | |
| | 0188208 | A2 | Europe (EP) | 07-23-1985 | |
| | 8902695 | A | WO | 03-23-1989 | |
| | | | | | |
| | | | | | |

| NON PATENT LITERATURE DOCUMENTS | |
|---------------------------------|---|
| Examiner Initials | Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

| | |
|--------------------|-----------------|
| Examiner Signature | Date Considered |
|--------------------|-----------------|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.